



PETROLEUM GEOSCIENCE AND PETROPHYSICS

Basin Analysis and Rift Basin Exploration

5 day course

Classroom, online or in-house

Course overview

Many of Africa's more recent oil discoveries lie in continental rifts, from the Albertine Graben in Uganda to the Lokichar Basin in Kenya and the Muglad Basin in Sudan, and those basins behave very differently from passive margins. Delegates begin with lithospheric stretching models, subsidence analysis and backstripping, then study rift architecture: half grabens, accommodation zones, transfer faults and the syn rift to post rift transition. Lacustrine source rocks, fan deltas and footwall derived sands are linked to that architecture. Heat flow and burial history modelling are used to estimate maturity through time. The final sessions cover basin modelling outputs and play mapping in under explored rifts. Delegates leave able to reconstruct a basin's subsidence and thermal history and target rift plays with reason.

What you will learn

- Explain lithospheric stretching models and their subsidence predictions
- Perform backstripping and subsidence analysis on well data
- Interpret half graben architecture, accommodation zones and transfer faults
- Relate lacustrine source rocks and rift reservoirs to tectonic stage
- Model burial, heat flow and thermal history through time
- Interpret one dimensional and two dimensional basin model outputs
- Map rift play fairways in frontier and under explored basins

Who should attend

- Basin analysts and exploration geologists
- Petroleum agency geoscientists promoting acreage
- Geochemists and basin modellers
- Structural geologists working rift settings
- New venture teams screening African basins

Course outline

- 01 Basin types and plate tectonic setting
- 02 Stretching models and subsidence
- 03 Backstripping and burial history
- 04 Rift architecture and fault linkage
- 05 Syn rift and post rift sedimentation
- 06 Lacustrine source rocks
- 07 Heat flow and thermal modelling
- 08 Basin modelling workflows
- 09 Rift play assessment

Upcoming dates



Dates	Venue	Format	Fee per delegate
12 to 16 October 2026	Kampala, Uganda	Classroom	USD 1,325
7 to 11 December 2026	Windhoek, Namibia	Classroom	R19,950
21 to 25 December 2026	Online	Online	R8,500
8 to 12 February 2027	Dar es Salaam, Tanzania	Classroom	USD 1,325

Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 1,325** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriScience.co.za, or WhatsApp us on **+27 63 479 1136**.

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